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Mike Mammarella, Shant Hovsepian, Eddie Kohler

October 2009   **SOSP '09:** Proceedings of the ACM SIGOPS 22nd symposium on Operating systems principles

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Keywords: databases, modular design, software architecture

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Andrew W. Leung, Ethan L. Miller

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4 Router plugins: a software architecture for next-generation routers

Dan Decasper, Zubin Dittia, Guru Parulkar, Bernhard Plattner

February 2000   **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 1

Publisher: IEEE Press

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Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 57,   Downloads (Overall): 764,   Citation Count: 8

Keywords: communication system routing, communication system security, internet, modular computer systems

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Full text available: 📄 Pdf (1.12 MB)   Additional Information: full citation, abstract, references, index terms

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Full text available: 📄 Pdf (808.86 KB)   Additional Information: full citation, abstract, references, index terms

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Jayaram Mudigonda, Harrick M. Vin, Stephen W. Keckler

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Keywords: data cache, memory bottleneck, multithreading, packet processing, processor architectures, reconfigurable architectures, routers

Also published in:

October 2007 **SIGCOMM Computer Communication Review** Volume 37 Issue 4

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1 An adaptable multithreaded prefetching technique for client-server object bases

Nils Knafla

January 1998   **Cluster Computing** , Volume 1 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: 📄 Publisher Site   **Additional Information:** full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a,   Citation Count: 0

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3 Toward the parallelization of GSL

Jose Ignacio Aliaga, Francisco Almeida, Jose Manuel Badia, Sergio Barrachina, Vicente Blanco, Maria Castillo, Rafael Mayo, Enrique S. Quintana, Gregorio Quintana, Alfredo Remón, Casiano Rodriguez, Francisco Sande, Adrian Santos

April 2009   **The Journal of Supercomputing** , Volume 48 Issue 1

Publisher: Kluwer Academic Publishers

Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a,   Citation Count: 0

In this paper, we present our joint efforts to design and develop parallel implementations of the GNU Scientific Library for a wide variety of parallel platforms. The multilevel software architecture proposed provides several interfaces: a sequential ...

Keywords: GNU Scientific Library, Numerical scientific computing, Parallel algorithms and architectures, Web services

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Keywords: capabilities, object-based storage, scalability

5 BORG: block-reORGanization for self-optimizing storage systems

Medha Bhadkamkar, Jorge Guerra, Luis Useche, Sam Burnett, Jason Liptak, Raju Rangaswami, Vagelis Hristidis

February 2009

FAST '09: Proccedings of the 7th conference on File and storage technologies

Publisher: USENIX Association

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 1

This paper presents the design, implementation, and evaluation of BORG, a self-optimizing storage system that performs automatic block reorganization based on the observed I/O workload. BORG is motivated by three characteristics of I/O workloads: non-uniform ...

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November 2006

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7 Hyperion: high volume stream archival for retrospective querying

Peter J. Desnoyers, Prashant Shenoy

June 2007

ATC'07: 2007 USENIX Annual Technical Conference on Proceedings of the USENIX Annual Technical Conference

Publisher: USENIX Association

Additional Information: full citation, abstract, references, index terms

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Network monitoring systems that support data archiving and after-the-fact (retrospective) queries are useful for a multitude of purposes, such as anomaly detection and network and security forensics. Data archiving for such systems, however, is complicated ...

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Keywords: c-store, column-oriented dbms, column-store, compression, invisible join, tuple materialization, tuple reconstruction

11 Cumulvs: Interacting with High-Performance Scientific Simulations, for Visualization, Steering and Fault Tolerance

James A. Kohl, Torsten Wilde, David E. Bernholdt

May **International Journal of High Performance Computing Applications** , Volume 20 Issue 2
2006

Publisher: Sage Publications, Inc.

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

High-performance computer simulations are an increasingly popular alternative or complement to physical experiments or prototypes. However, as these simulations grow more massive and complex, it becomes challenging to monitor and control their execution. ...

Keywords: CCA, CUMULVS, ECHO, Global Arrays, MPI, MxN, PVM, computational steering, fault tolerance, model coupling, visualization

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Jayaram Mudigonda, Harrick M. Vin, Stephen W. Keckler

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Also published in:
October 2007 **SIGCOMM Computer Communication Review** Volume 37 Issue 4

13 Clotho: decoupling memory page layout from storage organization

Minglong Shao, Jiri Schindler, Steven W. Schlosser, Anastassia Ailamaki, Gregory R. Ganger

August 2004 **VLDB '04: Proceedings of the Thirtieth international conference on Very large data bases - Volume 30** , Volume 30

Publisher: VLDB Endowment

Full text available: ▤ Pdf (212.45 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 30, Downloads (Overall): 42, Citation Count: 1

As database application performance depends on the utilization of the memory hierarchy, smart data placement plays a central role in increasing locality and in improving memory utilization. Existing techniques, however, do not optimize accesses to all ...

14 Global memory management for a multi computer system

Dejan Milojicic, Steve Hoyle, Alan Messer, Albert Munoz, Lance Russell, Tom Wylegala, Vivekanand Vellanki, Stephen Childs

August 2000 **WSS'00: Proceedings of the 4th conference on USENIX Windows Systems Symposium - Volume 4** , Volume 4

Publisher: USENIX Association

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

In this paper, we discuss the design and implementation of fault-aware Global Memory Management (GMM) for a multikernel architecture. Scalability of today's systems is limited by SMP hardware, as well as by the underlying commodity operating systems ...